



## MEMORANDUM

Date: As of 1 November 2016

To: Marine Advisory Committee

From: Matthew Logan, Project Manager

Subject: **November 2016 MSBU Project Update**

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**Ackerman Waterway:** Refer to Manchester Waterway.

**Alligator Creek:** The project includes the removal of approximately 20,400 cubic yards of sediment and rock to the permitted depth of -6ft MLW. Coastal Engineering Consultants (CEC) is assisting the County with project implementation having been selected through the Professional Services Library, RLI 2015000421. The County advertised the project for competitive bid. Three contractors submitted bids. The bid amounts were \$798,714, \$929,660, and \$2,678,156,250. The Engineer's Final Opinion of Probable Construction Cost was \$858,060. A recommendation of award to the apparent low bidder, Gator Dredging, will be on the BCC agenda on June 14<sup>th</sup>. The construction start date was Aug 1 with an anticipated construction duration of 180 days. Construction is underway.

**Buena Vista Area Waterways:** Project is Complete

**Edgewater North:** No active projects at this time.

**Gulf Cove Waterways** The waterway system consists of 44 man-made canals each of which accesses the Myakka River via a previously permitted system of channels. Maintenance dredging of the Gulf Cove channels was permitted by DEP and USACE in 1996. County-wide permits issued in 2002 by DEP and 2004 by USACE authorized maintenance dredging of all man-made canals in the County. A shoal has formed in the River that has reduced the navigable depth of the existing channel system to the point that ingress and egress for vessels using the man-made canals is limited. The initial design for this new permit was to maintenance dredge the approved 40-foot wide channel system plus extend these individual channels waterward ("straight shots") to meet the historic dredge depth. This analysis revealed that not all the channels would daylight (i.e., achieve the desired depth); plus the dredge volume to achieve the channel extensions was well over 57,000 cubic yards. In order to reduce the amount of dredging required, the plan was revised to utilize existing and new connector channels. This reduced the amount of dredging required by 8,000 cubic yards or more. Further, the new design aligns the connector channels with the flow of the river providing greater longevity to the project. The County

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will install and maintain channel markers to mark the new connector channels and extensions. The County and CEC are currently processing a 10-year permit to initially dredge approximately 49,000 cubic yards and to maintenance dredge up to an additional 40,000 cubic yards of material during the life of the permit. The design depth for the Channel is -5.0 ft MLW. The FDEP permit was issued October 26, 2015. The USACE Public Notice was issued February 5, 2016. Upon receipt of the USACE permit the County will move forward with project implementation.

**Harbour Heights:** A Request through purchasing has been initiated to retain Engineering services to Permit, Survey and Provide Construction Related Services for minor shoaling within the Harbor Heights Waterway System. The Consultant is in the process of updating the Survey and Construction Plans/Drawings. The citizens would like to see some Mangrove trimming added to the contract to ease line of sight and navigation issues. This project was placed on hold while awaiting the Countywide Permit. The Letter of Consent has been issued. The ACOE issued the permit on January 11, 2016 for a period of 10 years. This project is currently being advertised for competitive bid.

The Pre-Bid meeting was held on April 13<sup>th</sup>, 2016. The board has approved the contract with Marine Contracting Group. The pre-commencement meeting was held on June 2, 2016. The contractor to mobilized on Aug 8, 2016. Construction is ongoing.

**Hayward Canals:** No active projects at this time

**Manchester Waterway:** No Active Project

**Manasota Key North Beach Erosion Project:** Notice to Proceed was issued to the Coastal Engineering Consultants Team in August 2016. The topographic and bathymetric surveys of the beach were completed in September. These surveys will serve as input data for the beach fill design and the base drawings for permitting. The reconnaissance level geophysical surveys were completed on 18 potential offshore borrow area sites in October. These surveys included bathymetry, sidescan sonar, subbottom profiling, and magnetometer surveys. These data are currently undergoing analysis. The next effort is to collect vibracores to characterize the sediment in these areas and determine the suitability for beach restoration. A detailed side scan sonar survey of the nearshore zone was also completed as part of mapping the nearshore hardbottom that may be affected by future beach fill placement. Surveys and design analyses will continue this month on the beach fill template and potential impacts to the nearshore hardbottom. The cross-shore transport modeling was completed which yields the design beach fill template for a 25-year design storm event.

The County has engaged an outside consultant, PAR, to assist with the economic study and development of a funding program for the Project.

**Northwest Port Charlotte:** No active projects at this time.

**Peace River Shores:** No active projects at this time.

**Pirate Harbor:** This project provides for engineering, design and permitting to dredge a 2300 feet access channel that was not covered under previous permitting. The bathymetric and seagrass surveys are complete. The jet probe survey and geotechnical report are complete. The updated channel design is complete which proposes a 45-foot wide channel to -5 ft MLW located within the limits of the existing marked channel. Seagrasses exist within the limits of the existing marked channel which will need to be mitigated for due to the dredging impacts. The ERP Permit Application was submitted to initiate the

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state and federal permit processes. On May 23 the County and CEC met on site with DEP, Aquatic Preserve Staff, and FWC to review the project design and multiple proposals for seagrass mitigation strategies. The state agencies have requested a channel realignment to possibly reduce potential impacts to seagrasses from the dredging. The state agency staff, County, and CEC reached consensus on a mitigation strategy to propose restoration of seagrass areas in the vicinity of Cormorant Key. This area has been impacted based upon comparisons of historic aerial photography and evidence of prop scars through the grass beds. A public interest proposal is being developed in cooperation with Florida Sea Grant and local boating stakeholders within the Aquatic Preserve as part of the permit process. A revised Permit Application was submitted on July 13, 2016. FDEP issued an RAI on Aug 12<sup>th</sup>. An amendment to Coastal Engineering's contract for additional field work goes before the board on November 8, 2016.

**Southbridge Waterway:** No active projects at this time.

**South Gulf Cove:** No active projects at this time

**South Gulf Cove Parallel Lock:** This project was placed on hold.

**Suncoast Waterway:** No active projects at this time.

**Stump Pass:** The County is rebidding the Project to complete the Stump Pass maintenance dredging and terminal groin components of the Project in 2017, and phasing the South Beach Fill renourishment to coincide with the design renourishment interval of 8 years in 2019. This will coincide with the Manasota Key beach restoration project, allowing the County to construct both segments under one mobilization effort that should save the residents, stakeholders, and taxpayers millions of dollars. The County has the right to move forward with beach renourishment in the event conditions change along the South Beach Fill, and monitoring will be performed on the beaches routinely.

Coastal Engineering Consultants (CEC) completed the updates to the Plans and Specifications and the County is in the process of assembling the Bid Documents, at which time the County will advertise for Bid, hold a Pre-Bid Meeting, and open Bids by the end of the calendar year. Construction is to commence in early 2017 and be complete in May 2017

CEC conducted a post-Hermine condition survey of the pass. The controlling depth was ~ 5 ft MLW which has been consistent for several years. Two buoys were recommended for adjustment. County will go out in next 2 weeks and relocate them.

**Dayboards:** Topic and Options to be discussed separately.